

Figure 1A

.GGCC
A
GACA
T
ACGC
CGGA
AGAG.
rgag
SCCA
TCA
CTG
TCG
CAG
AAA
AAA

Figure 1B

Percent Similarity: 46.591 Percent Identity: 28.788

		•	
	1	MEPPGDWGPPPWRSTPKTDVLRLVLYLTFLGAPCYAPALPSCKEDEYPVG	: 50
	1		
		•	
	51	SECCPKCSPGYRVKEACGELTGTVCEPCPPGTYIAHLNGLSKCLQCQMCD::  .	100
		::  .       :   .    .   .:  ::  :    .  : GQCCDLCQPGSRLTSHCTALEKTQCHPCDSGEFSAQWNREIRCHQHRHCE	
		PAMGLRASRNCSRTENAVCCCSPCHECTVORORUGANORA	
i.			
S		QKGGTESODTLCONCPPCTES PNCTI FEGGUATUS	
) J		. :  .   : :   .     .     .   .   .   .	
o	199	SHWVWWFLSGSLVIVIVCSTVGLIICVKRRKPRGDVVKVIV	
9			
	102	TNVICGLKSRMRALLVIPVVMGILITIFGVFLYIKKVVKKPKDNEMLPPA	231
UI N		SVQRKRQEAEGEATVIEALQAPPDVTTVAVEETIPSFTGRSPNH	
		ARRQDPQEMEDYPGHNTAAPVQETLHGCQPVTQEDGKESRISVQERQVTD	

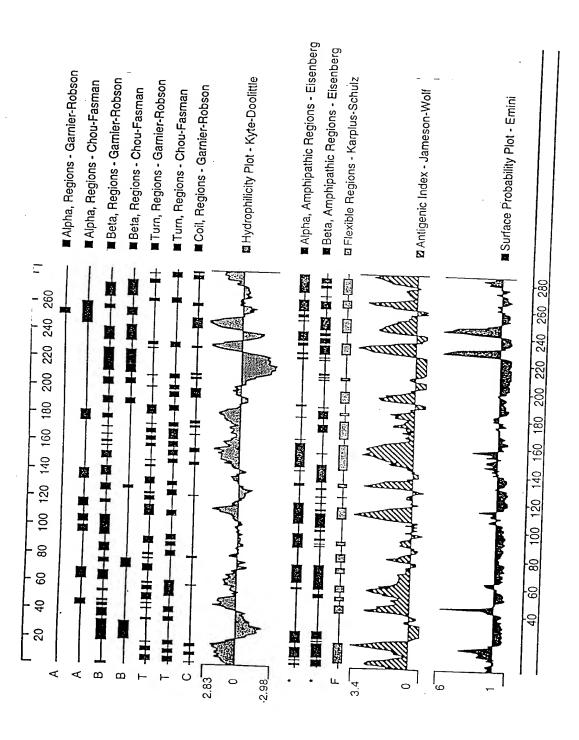


Figure 3

			10							30						_	0		
С	CCC	CTTC	TAC	AG	GAA	ACC	CGG	AGT	ഹാ	വസവ	C A A	ccc	ייייי	אככ	000	כ מיטמי	7 Orr		CCCT
C	CAT	CGGG	CGC	CŤ	CCT	TCA	TAC	CGG	CCC	ישירירי	יררר	ጥርር	CCT	ጥጥ	റവ	エエ	0 020	ama	CTGCC
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Т	CAG	GCAG	CGC	CAC	CCT	GTG	TCG	CCC	AGC	GCC	GCT	CCA	CCC	ልርር	A C C	ነ ተ ተ	บ ตลด		СТСТС
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T	GCT	3CCA	GAC	ACC	CCC	CTG	CTG	CCC.	ACT	ACT	CCT	GCT	GCT	CGG	CTT	יכב באדטי	NGG.	$C$ $\lambda$ $C$	AGCTT
Ġ.	I'CA(	CACC	GAG	GCC	GA:	rrc:	rct'	TTC	rct'	TTC	TCT	TTC	TCT	rct	GGC	CCA	TAG	~~~	CAGCA
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A'	I'GGC	GCT	GAG	TTC	CTC	CTG	CTG	GAG'	rtc.	ATC	CTG	CTA	GCT	GGG'	TTC	CCG	י אמריי	זיניכי	CGGTC
1.0	AGC	CTG.	AGT	CAI	'GG	AGCC	TC	CTG	GAG	ACT	GGG	GC(	CTC	CTC	CT	CCAC	ארי א תרי	יר אַר	cccc
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A	JAAC	CGA	CGT	CTT	'GAC	GCI	GG'	rgci	GTA	ATC	CAC	CTT	rcci	'GGC	AG		CTC	CTA	CGCC
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D.	AGC	TCTC	3CC	GTC	CTG	CAA	GGZ	AGGA	CGA	AGTA	ACCC	AGT	rggg	CTC	CGZ	AGTG	СТС	CCC	CAAG
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~	S,CAG	P	AGGT	PTA	TCG	TGT	'GAA	GGA	.GGC	CTG	CGG	GGA	GCT	GAC	GGC	CAC	AGT	GTG	TGAA
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P	C 1 G	P P	P.	AGGI	CAC	CTA	CAT	'TGC	CCA	CCT	'CAA	TGG	CCT	AAG	CAA	GTG'	TCT	GCA	GTGC
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\G(	CAT	'GAA	CAG.	AAG	AGO	AAC	SCT(	GAC	ን ምርር ንግጥና	ייתיתים י	raaa	الراكات	י אותו	mc c	1(	010			

	1030	1050	
		1050	1070
	1090	TGCATGCCCAGTTCCAT(	1070 GCCCCTCCCTTTGTGAAAGCAC
	CTGTCTACTTGGGCTGAGC	1110	1130
	1150	ATGTGGGGGCACAGGTG(	1130 GCAGGTGAGGCTGCCCTCAGGAGG
	GGCCCAGCCCCAGCCCCCCCCCCCCCCCCCCCCCCCCCC	1170	1190
	1210	CCCCACCTCCACCAGTAC	1190 CCTGAAGAAGTGGGGCTCTCACCC
	TACCTGCCTCTGCCATTTCC	1230	1250
	1270	AATGGCCTGGTTTGCAC	1250 AGATGGGAAACCCGTTTGAGGGGT
	1330	1350	1310 GAGGGACCCTGCCCTGGAACTGA
	CAGTGCAAGCTCGGCGTCC	1350	1370
	1390	1410	1370 GCTGGTTTCTCCCATCAACGAAG
	CCCTCCCAGGACCTTCCTCC	1410	1430
	1450	LAAGUCUTUGTUUUACAC	1430 GCAGCTCTGCCGTCCCTTGGTGT
	1510	1530	1490 GGGCACCTCGTTTGGCTGAGCCA
	1570	CGCCCTGGCAGCAGTCCT	1550 TGGCCTGTGGATGCTGTCCTGGC
	CTGTGGATGGTGTCCCCCCC	1590	1610
	1630	1650	1610 CCCCCTCCTCTTGGACTCCAGCC
	ATGGGCCTGCGCGAGCCC	1000	1670
	1690	1710	1670 AGAACGCCGTGTGTGGCTGCAGC
	CCAGGCCACTTCTGCATCGT	1/10	1730
	1750	1770	1730 GCGCCGCGTGCCGCGCTTACGCC
	ACCTCCAGCCCGGGCCAGAG	CCTCCACAACCAACCAACCAA	1790 CCGAGAGTCAGGACACCCTGTGT
	1810	1830	CGAGAGTCAGGACACCCTGTGT
	CAGAACTGCCCCCGGGGAC	CTTCTCTCTCC	1850 CCTGGAGGAATGTCAGCACCAG
	ACCAATTGGCCTAATCATAT	GTGTGAAAAGAAGAAA	1910 CAAGGGTGAGCACACGGTGGC
	CCCATCAGGGTTCATGTCCC	CAGCCGTCACCTCTTCCA	1970 GCTCTGTCACCCCAAGCCTGGG
	1990	2010	GCICIGTCACCCCAAGCCTGGG
	AGGTGGCCCCAGAGCTTTTC	CAGGATCCGCGGCTCCTC	2030 CCAGGGCAGCCACTGCAGGCTG
	GGGCAGGTGTATGTAGTCAA	GGTGATCGTCTCCGTCCA	2090 GCGGTAAAAGACAGGAGGCAGA
	AGGTGAGGCCACAGTCATTGA	AGCCCTGCAGGCCCCTCC	2150 GGACGTCACCACGGTGGCCGTG
	2170	2190	2210
	GAGGAGACAATACCCTCATTC	CACGGGGAGGAGCCCAAA	2210 CCACTGACCCACAGACTCTGÇA
	2230	2250	2270
	CCCCGACGCCAGAGATACCTC	GAGAGACGGCTGCTGAT	2270 AGAGGCTGTCCACCTGGCGAAA
	2290	2310	2320
	CCACCGGAGCCCGGAGGCTTG	GGGGCTCCGCCCTGGGC	2330 TGGTTTCCGTCTCCAGTGG
	2350	2370	2390
	AGGGAGAGGTGGTGCCCCTGC	TGGTGGTAGAGCTGGGG	2390 ACGCCACGTGCCATTCCCATGG
	2410	2430	2450
	TTCAGTGAGGGGCTGGTGGCC	TCTGTTCTGCTGTGGCCT	GAGCTCCCACACMCCMCA
	2470	2490	2510
	AGGAGCCCCAGTTGCCCCTCG 2530	CTCACAGACCACACACCC	AGCCCTCCCCA A COCA ~
•	2530	2550	2570
	AGGCCCCTTCAGACCCCAGCT 2590	GTCTGCGCGTCTGACTCT	TGTGGCTCTCACCACCACCACCACCACCACCACCACCACCACCAC
	2590	2610	2630
	CCCGGGCACTGCCTCACAGCC	AAGGCTGGAATGGGTTGG	CTGCAGTGTGGTCTTTTTTTTTTTTTTTTTTTTTTTTTT
	2650	2670	2690
	ATACCACATCGGAAGTGATTT	TCTAAAAATTGGATTTGA	ATTCGGAAAAAA

Percent Similarity: 47.541 Percent Identity: 24.590

1 MEPPGDWGPPPWRSTPRTDVLRLVLYLTFLGAPCYAPALPSCKEDEY. P 48
.   . :   : : : :   .   .   .
1 MAPVAVWAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCRLREYYDQ 48
49 VGSECCPKCSPGYRVKEACCEL MONVOOR
:   .     : .    :     : .
99CDPDICEDON POR S
99CDPDIGSPCDLRGRGHL EAGAHLSPGRQKGEPDPE 133 99 RCSSDQVETQACTREONELCTCP.PCCTVCALCULAR
TOTAL SKYEGERLCAPLRICE 140
134 VAFESLSAEPVHAANGS 150
149 VARPGTETSDVVCKPCAPGTFSNTTSSTDICRPHQICNVVAIPGNASMDA 198
151 UDI ROMA 198
151 VPLEPHARLSMASAPCGQAGLHLRDRADGTPGGRA
:
248 24 VSTRSQHTQPTPEPSTAPSTSFLLPMGPS

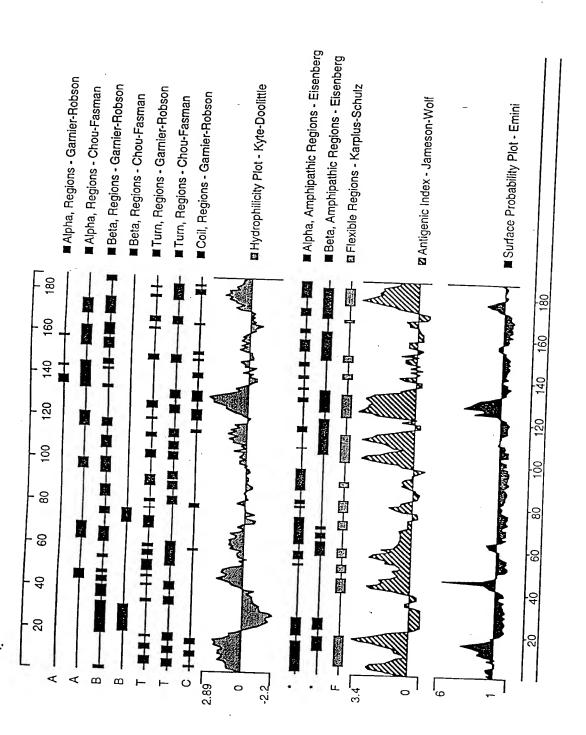


Figure 6

10 30 50	
AAAGCTCGGGCTCCACCGGGGACGACCGCTCCTAGAAACTGAGTGGTATCCCCC	CCC
90 110	GGGCCT
GCAGGAATTCCAACCTGCCTGAAGGGACCCTGCCCTGGAACTGACAGTGCAAGC	ጥርርርር
TCCTGCCCAMOTOGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	redece
TO THE THE THE GAAGAAGGCTGGTTTCTCCCATCAACGAAGCCCTCCCAGG	ACCMmo
CTGCAACCGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG	acc 1 Te
CTGCAAGCCTCGTCCCACACGCAGCTCTGCCGTCCCTTGGTGTCCCTCCC	מיתר איתים
TCCTCCATCCTCCATCCTCCTCCTCCTCCTCCTCCTCCTC	or CAGG
TCCTCCATGCTGGGTACCTCTGGGCACCTCGTTTGGCTGAGCCAGGGGTTCAGCC	<u>ር</u> ጥርርርር አ
GGGCGCCCTGGCAGCAGTCCTTGGCCTGTGGATGCTGTCCTGGCCTGTGGATGGT	GTCCC
370 LACGWC	
$^{390}$ $^{410}$	GCGCG:
GLHVPPLSPSSWTPAMCT	
430 450 W T P A M G L F	R A
AGCCGGAACTGCTCCAGGACAGAGAACGCCGTGTGTGGCTGCAGCCCAGGCCACT	
490 510	_
ATCGTCCAGGACGGGACCACTGCGCGCGTGCCGCGCTTACGCCACCTCCAGCC	
550 570 The state of the state	0
CAGAGGGTGCAGAAGGGAGGCACCGAGAGTCAGGACACCCTGTGTCACAAACTGCAGA	
610	
GGACCTTCTCTCCCAATGGGACCCTGGAGGAATGTCAGCACCAGACCAAGTAACTA	C
670	
CGGGGGAGGCCAGCTCTGTGCCCTGGGGAGGGGGCTCCACGTTGCTTCCCTGGGA	GATCA
/50	
CCGTCTTCTCCAGCAGAAAGGTTGAAGGTCCCACCCTGAGCGGCACCCTGGTCAC	ATGCC
TGCGTCCAGGAGAGCTGCAGGGTGAAGCCTGTGTGCCCCAGATAACCCCTTCCATG	GGGCC
CAGACAAAGCCTCATCAGATCTGAGCTTCCTGGAGGCTCAGGATGGGCCTTCCCAG	GAAGC
AGGCCCAGAGGGAGGCTGCCTCCAGATCCCCTGTCCCCTGGGGCTGTCCCC	CTGAA
TGTCAGGGCCATGGGAGGGCCCCTGGGCTTCAGGGGTTGGGGAAAGTGAACACTCT	
TTTGTCCACCTTCGGGAGGACAACCTTCAAATGCTGACCCTGGGCCCCTAACTGAC	
GACTTCAGAGCTTCTTGGGAGGAGCTGGGGTCCCCCAGCGGAGCCTGGGATGGAGC	
ATGGCTGCCCAGGGAGGGGGGGGGGGGGGGGCTTCCATCCTGCTCTCGT	
TGGCCCCAGCTCAGTCCTGTCCATCTCCAGCTCTAACCATTTGTGGCCCCAGAGAGG	100m =
TCCCTCTACCTTCTGTCTGTCTGACACTGGTCTCCCGTGCTCTCGCCTCTCTCT	'A CIDO
ATGGCTGCCTCCCGCTTCTCCCCTCTCCCCTCTGCCGTCCTGTCTCCTGTCGCCA	CTCT

1390	1410	1430
CTCCTTGTTTCTCTCTCC	CTCCTTCCTCTCCACC	CTCCCATAGCCGAGCTTGGAAA
1450	1470	1490 -
GTCAGACAGACCTCTGAGG	STCTCATCCTGGAGCTGCC	ACCAGCCCAGCCTCCCTGGGACC
1210	1530	1550
TGTCTTCACTGCCTGGGGC	CCTGGGAGCCAGGGAGGC	TCCCTGAGGCTGAGTGAACACTG
1210	1590	1610
GGCGCTGCACCTGCCTCTC	CCACGTCCTCGGCCCCAC	TCCCGCAGGTGCAGCTGGCTGGT
1030	1650	1670
GACGAAGCCCGGAGCTGGG	ACCAGCAGCTCCCACTGG	GTATGGTGGTTTCTCTCAGGGAG
1690	1710	1730
CCTCGTCATCGTCATTGTT	'TGCTCCACAGTTGGCCTA	ATCATATGTGTGAAAAGAAGAAA
1/50	1770	1790
GCCAAGGGGTGATGTAGTC	AAGGTGATCGTCTCCGTC	CAGGTATTGATCCTCCTCCCCT
1810	1830	1850
CTCCCTCCCCCTCCACCT	TCCCACCTCCCCTCTCCC	CGCTGGGGCTGGTGTTCTGGTG
1870	1890	1910
TACATGGTGGGGGCTCCCA	GTTCTCTGAGGGTCCTGAG	GTCTTTCAAGTACAGCCACGGTA
1930	1950	1970
GCTCAGGAAAGAACCCACC	CCCTCAAACTGAAAGCAG	TAAAATGAACCCGAGAACCTGGA
1990	2010	2030
GTCCCAGGGGGGCCTGAGC	AGGCAGGGTCTCCACGAT	rcgtgtgctcacagcgggaaaag
2050	2070	2090
ACAGGAGGCAGAAGGTGAGG		CTGCAGGCCCCTCCGGACGTCAC
2110	2130	2150
CACGGTGGCCGTGGAGGAG	ACAATTACTOCATAACA	GGGGAGGAGCCCAAACCACTGAC
2170	2190	2210
CCACAGACTCTGCACCCCG	ACGCCAGAGATACCTGGAG	GCGACGGCTGCTGAAAGAGGCTG
2230	2250	2270
TCCACCTGGCGAAACCACC	GAGCCCGGAGGTTTGGGG	GCTCCGCCTGGGCTGGTTTCC
2290	2310	2330
GTCTCCTCCAGTGGAGGGA	AGGTGGGGCCCCTGCTGC	GGTAGAGCTGGGGACGCCACGT
2350	2370	2390
GCCATTCCCATGGGCCAGTC	JAGGGCCTGGGGCCTCTGT	TCTGCTGTGGCCTGAGCTCCCC
2410	2430	2450
AGAGTCCTGAGGAGGAGCGG	CAGTTGCCCCTCGCTCAC	AGACCACACACCCAGCCCTCCT
2470	2490	2510
GGGTCCAGCCCAGAGGGCCC		GCGCGTCTGACTCTTGTGGCCT
2530	2550	2570
CAGCAGGACAGGCCCCGGGG		CTGGACTGGGTTGGCTGCAGTG
2590	2610	2630
TGGTGTTTAGTGGATACCAC		A A TTGGA TTTG A A A A A A A A
	CCCLLICIONI I I I CIA	ATT TOOM LITONAAAAAAA

Percent Similarity: 45.522 Percent Identity: 26.866

	MLGTSGHLVWLSQGFSLAGRPGSSPWPVD :: : :   .   :   .   .   .   .   .   .	
1	TEATUGEEWAAAHALPAQVAFTPYAPEPGSTCRLREYYDOT	49
30	AVLACGWC.PGLHVPPLSPSSW	50
	:   :             :   : AQMCCSKCSPGQHAKVFCTKTSDTVCDSCEDSTYTQLWNWVPECLSCGSR	
	TPAMGLRASRNCSRTENAVCGCSPGHFCTVODCDHCAACRAYATGSBCOD	
	CSSDQV.ETQACTREQNRICTCRPGWYCALSKQEGCRLCAPLRKCRPGFG	
	VQKGGTESQDTLCONCPRGPSLPMGPMPMVSTPDGV	
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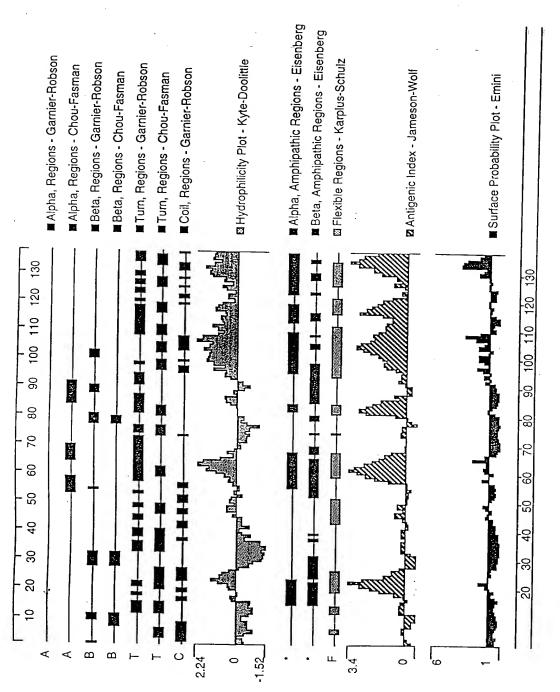


Figure 9

Percent Similarity: 73.370 Percent Identity: 59.783

1	MEPPGDWGPPPWRSTPRTDVLRLVLYLTFLGAPCYAPALPSCKEDEYPVG	50
51	SECCPKCSPGYRVKEACGELTGTVCEPCPPGTYIAHLNGLSKCLQCQMCD	100
	PAMGLRAS.RNCSRTENAVCGCSPGHFCIVQDGDHCAACRAYATSSPGQR	
.01	PDIGSPCDLRGRGHLEAGAHLSPGRQKGEPDPEVAFESLSAEPV	144
50	VQKGGTESQDTLCQNCPPGTFSPNGTLEECQHQTKCSWLVTKAGAGTSSS	199
45	HAANGSVPLEPHARLSMASAPCGQAGLHLRDRADGTPGGR	184
00	HWVWVFLSGSLVTVIVCSTVGLTICVKPPKDPCDVVKVIVSVOPKDOPAE	246

Percent Similarity: 70.588 Percent Identity: 60.294

1	MEPPGDWGPPPWRSTPKTDVLRLVLYLTFLGAPCYAPALPSCKEDEYPVG	50
	::  : . :       :     :     :     :     :       :   :     :   :   :     :   :     :   :     :   :     :   :     :   :     :   :     :   :     :   :     :   :     :   :     :   :     :   :     :   :     :   :   :     : :   :   :   : :   :   : :   :   : :   :   : :   :	
51	SECCPKCSPGYRVKEACGELTGTVCEPCPPGTYIAHLNGLSKCLQCQMCD	100
	:     . :   .   .   .   .   .   .	
L01	PAMGLRASRNCSRTENAVCGCSPGHFCIVQDGDHCAACRAYATSSPGQRV	150
52		101
151	QKGGTESQDTLCQNCPPGTFSPNGTLEECQHQTKCSWLVTKAGAGTSSSH	200
.02		126

Percent Similarity: 37.984 Percent Identity: 20.155

1	MEPPGDWGPPPWRSTPRTDVLRLVLYLTFLGAPCYAPALPSCK	43
	::  :.:       . MLGTSGHLVWLSQGFSLAGRPGSSPWPVDAVLACGWCP	
44	EDEYPVGSECCPKCSPGYRVKEACGELTGTVCEPCPPGTYIAHLNGLSKC	93
39	GLHVPPLSPSSWTPAMGLRASRNCSRTENAVCGCSPGHFCIVQDGDHC	86
	LQCQMCDPDIGSPCDLRGRGHLEAGAHLSPGROKGEPDBEVAFEGIGAED	
	AACRAYAT. SSPGQRVQKGGTESQDTLCQNCPRGPSLPMGPWRNVSTRP	
	VHAANGSVPLEPHARLSMASAPCGQAGLHLRDRADGTPGGRA. 185	
	SK	

1	······GCACGAGCTGCCTCCCGCAGCGCCCCCTGTGTCCCCCAGCG	42
101	TTGCCTGGACAGCTCCTGCCTCAGGCA.GCGCCACCTGTGTCGCCCAGCG	149
43	CCGCTCCACCAGCAGGCCTGAGCCCCTCTCTGCTGCCAGACACCCCCTG	92
150	CCGCTCCACCCAGCAGGCCTGAGCCCCTCTCTGCTGCCAGACACCCCCTG	199
93	CTGCCCACT.CTCCTGCTGCTCGGGTTCTGAGGCACAGCTTGTCACACCG	141
200	CTGCCCACTACTCCTGCTGCTCGGGTTCTGAGGCACAGCTTGTCACACCG	249
142	AGGCGGATTCTCTTTCTCTTTCTCTTCTCTGGCCCACAGCCGCAGC	191
250	AGGCGGATTCTCTTTCTCTTTTCTCTTTCTGGCCCACAGCCGCAGC	299
192	AATGGCGCTGAGTTCCTCTGCTGGAGTTCATCCTGCTAGCTGGGTTCCCG	241
300	AATGGCGCTGAGTTCCTGCTGGAGTTCATCCTGCTAGCTGGGTTCCCG	349
242	AGCTGCCGGTCTGAGCCTGAGGCATGGAGCCTCCTGGAGACTGGGGGCCT	291
350	AGCTGCCGGTCTGAGCCTGAGTCATGGAGCCTCCTGGAGACTGGGGGCCT	399
292		341
400 342	CCTCCCTGGAGATCCACCCCCAGAACCGACGTCTTGAGGCTGGTGCTGTA	449
450	TCTCACCTTCCTGGGAGCCCCCTGCTACGCCCCAGCTCTGCCGTCCTGCA	391
392	TCTCACCTTCCTGGGAGCCCCCTGCTACGCCCCAGCTCTGCCGTCCTGCA	
500	AGGAGGACGAGTACCCAGTGGGCTCCGAGTGCTGCCCCAAGTGCAGTCCA	441
442	GGTTATCGTGTGAAGGAGGCCTGCGGGGAGCTGACGGGCACAGTGTGTGA	
550	GGTTATCCTCTCA A CCA CCCCTTCCCTCA A CCA CCCCTTCCTCA A CCA CC	491
492	ACCCTCCCCTCCA CCCA CCTA CATTACACA	599 541
600		649
	GTCTGCACTCCCAAA TGTGTGTCA	564
	GTCTGCAGTGCCAAATCTCTCACCAAATTATTCCTCTCACCAAATTATTCCTCTCACCAAATTATT	699
565		
	CCCTCTTTGGACTCCAGCCATGGGCCTGCGCGCGAGCCGGAACTGCTC	
600	CAGGACAGAGAACGCCGTGTGTGGTTGCAGCCCAGGCCACTTCTGCATCG	649

165.0	CAGGACAGAGAACGCCGTGTGTGGCTGCAGCCCAGGCCACTTCTGCATCG	1699
650 1700		
	CCGGGCCAGAGGGTGCAGAAGGGAGGCACCGAGAGTCAGGACACCCTGTG	749
750		799
800	GTCAGCACCAGACCAATTGGCCTAATCATATGTGTGAAAAGAAGAAAGA	818
819	CAGCTGGCTGACGAAGGCCGGAGCTGGGACCAGCAGCTC	
861	CCACTGGGTATGGTGGTTTCTCTCAGGGAGCCTCGTCATCGTCATTGTTT	
	GCTCCACAGTTGGCCTAATCATATGTGTGAAAAGAAGAAAGCCAAGGGGT	
	GATGTAGTCAAGGTGATCGTCTCCGTCCAGCGG.AAAAGACAGGAGGCAG	1009 2099
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	CCACTGACCCACAGACTCTGCACCCCGACGCCAGAGATACCTGGAGCGAC	1159 2248
1160	GGCTGAATGAAAGAGGCTGTCCACCTGGCGGAACCACCGGAGCCCGGAGG	1209
210	CTTGGGGGCTCCACCCTGGACTGGCTTCCGTCTCCAGTGGAGGGAG	1259
260	GGTGGCGCCCTCCTCCTCCTCCTCCTACACACACACACAC	

1309	TGGGCCAGTGAGGGCCTGG.GGCCTCTGTTCTGCTGTGGCCTGAGCTCCC	1357
2398		2447
1358	CAGAGTCCTGAGGAGGAGGCCAGTTGCCCCTCGCTCACAGACCACACAC	1407
2448	CAGAGTCCTGAGGAGGAGCCCCAGTTGCCCCTCGCTCACAGACCACACAC	2497
1408	CCAGCCCTCCTGGGCCAACCCAGAGG.GCCTTCAGACCCCAGCTGTGTGC	1456
2498	CCAGCCCTCCTGGGCCAACCCAGAGGCCCCTTCAGACCCCAGCTGTCTGC	2547
1457	GCGTCTGACTCTTGTGGCCTCAGCAGGACAGGCCCCGGGCACTGCCTCAC	1506
2548		2597
1507	AGCCAAGGCTGGACTGGGTTGGCTGCAGTGTGTGTTTAGTGGATACCAC	1556
2598	AGCCAAGGCTGGAATGGGTTGGCTGCAGTGTGTTTAGTGGATACCAC	2647
1557	ATCGGAAGTGATTTCT . AAATTGGATTTGAATTCGGCTCCTGTTTTCT	1604
2648	ATCGGAAGTGATTTCTAAAAATTGGATTTGAATTCGGAAAAAA	2692

Figure 13C

1	GCACGAGCTGCCTCCCGCAGGCGC	
701	GTTGCTTCCCTGGGAGATGACCGTCTTCTCCAGCAGAAAGGTTGAAGGTC	750
25	CACCTGTGTCCCCCAGCGCCGCTCCACCCAGCAGCCCTGAGCCCCTCTCT	74
751	CCACCTGAGCGGCACCCTGGTCACATGCCTGCGTCCAGGAGAGCTGCAG	800
75	GCTGCCAGACACCCCCTGCTGCCCACTCTCCTGCTGCTCGGGTTCTGAGG	124
801	GGTGAAGCCTGTGTGCCCCAGATAACCCCTTCCATGGGCCCAGACAAAGC	850
125	CACAGCTTGTCACACCGAGGCGGATTCTCTTTCTCTTTCTCTTTC	174
851	CTCATCAGATCTGAGCTTCCTGGAGGCTCAGGATGGGCCTTCCCAGAAGC	900
	TGGCCCACAGCCGCAGCAATGGCGCTGAGTTCCTCTGCTGGAGTT	
	AGGCCCAGAGGGAGGCTGCCTCCAGATCCCCTGTCCCCTGGGGCTGTGGG	
	CATCCTGCTAGCTGGGTTCCCGAGCTGCCGGTCTGAGCCTGAGGCATGGA	
	TGTCCCTGAATGTCAGGGCCATGGGAGGCCCCTGGGCTTCAGGGGTTGG	
	GCCTCCTGGAGACTGGGGGCCTCCTCCCTGGAGATCCACCCCCAA	
	GGAAAGTGAACACTCTGCTCTTTGTCCACCTTCGGAGATCCACCCCCAA	
	AACCGACGTCTTGAGGCTGGTGTTATCTCACCTTCCTGGGA	357
TODI	ATGCTGACCCTGGGCCCCTAACTGACCTGAGACTTCAGAGCTTCTTGGGA 1	L100

358 GCCCCTGCTACGCCCCAGCTCTGCCGTCCTGCAAGGAGGACGAGTACCC 407
1101 GGAGCTGGGGTCCCCAGCGGAGCCTGGGATGGAGCAGGATGGCTGCCC 1150
408 AGTGGGCTCCGAGTGCTGCCCCAAGTGCAGTCCAGGTTATCGTGTGAAGG 457
1151 CAGGGAGGGGGGGGGGCCTTCCATCCTGCTCTGCCCTCCTCGTCCTC 1200
458 AGG. CCTGCGGGGAGCTGACGGGCACAGTGTGTGAACCCTGCCCTCCAG 505
1201 TGGCCCCAGCTCAGTCCTGTCCATCTCCAGCTCTAACCATTTGTGGCCCG 1250
506 GCACCTACATTGCCCACCTCAATGGCCTAAGCAAGTGTCTGCAGTGCC 553
554 AAATGTGTGACCCAGCCATGGGCCTGCGCGCGAGCCGGAACTGCTCCAG 602
1301 GCTCTGGGGTCTCTGCACTGATGGCTGCCTCCCGCTTCTCTCCCCTCTCC 1350
603 GACAGAGAACGCCGTGTGTGGTTGCAGCCCAGGCCACTTCTGCATCGTCC 652
1351 CTCTGCCGTCCTGTCTCCTGTGGCCAGTCTCTCCTTGTTTCTCTCTC
653 AGGACGGGGACCACTGCGCCGCGTGCCGCGCTTACGCCACCTCCAGCCCG 702
1401 CCTTCCTCTCCACCTCCCCATAGCCGAGCTTGGAAAAGTCAGACAGA
703 GGCCAGAGGGTGCAGAAGGGAGGCACCGAGAGTCAGGACACCCTGTGTCA 752
1451 CCTCTGAGGTCTCATCCTGGAGCTGCCACCAGCCCAGCC
753 GAACTGCCCCCCGGGGACCTTCTCTCCCAATGGGACCCTGGAGG 796
1501 TGTCTTCACTGCCTGGGGCCCTGGGAGCCAGGGAGGCTCCCTGAGGCTGA 1550
797AATGTCAGCACCAG 810
1551 GTGAACACTGGGCGCTGCACCTGCCTCTCCCACGTCCTCGGCCCCACTCC 1600
811 ACCAAGTGCAGCTGGCTGACGAAGGCCGGAGCTGGGACCAGCAGCTC 860
1601 CGCAGGTGCAGCTGGCTGACGAAGCCCGGAGCTGGGACCAGCACCTC 1650
861 CCACTGGGTATGGTGCTTTCTCTCACCCACGGTGGTCA
911 GCTCCACAGTTGGCCTAATCATTATTGTTGTTGTATATTGTTGTTGTATTATTGTTGTTG
1701 GCTCCACAGTTGGCCTAATCATATGTGTGAAAAGAAGAAAGCCAAGGGGT 1750
961 GATGTAGTCAAGGTGATCGTCTCCGTCCAC
991

2001		2050
	GAAGGTGAGGCCACAGTCATTGAGGCCCTGCAGGCCCCTCCGGACGTCAC	-050
•	GAAGGTGAGGCCACAGTCATTGAGGCCCTGCAGGCCCCTCCGGACGTCAC	
	CACGGTGGCCGTGGAGGAGACAATACCCTCATTCAC.GGGGAGGAGCCCA	
	AACCACTGACCCACAGACTCTGCACCCCGACGCCAGAGATACCTGGAGCG	
1158	ACGGCTGAATGAAAGAGGCTGTCCACCTGGCGGAACCACCGGAGCCCGGA	1207
2201	ACGGCTG.CTGAAAGAGGCTGTCCACCTGGCGAAACCACCGGAGCCCGGA	2249
1208	GGCTTGGGGGCTCCACCCTGGACTGGCTTCCGTCTCCTCCAGTGGAGGGA	1257
2250		2299
1258	GAGGTGGCGCCCTGCTGGGGTAGAGCTGGGGACGCCACGTGCCATTCCC	1307
2300	GAGGTGGGGCCCTGCTGGGGTAGAGCTGGGGACGCCACGTGCCATTCCC	2349
1308	ATGGGCCAGTGAGGGCCTGGGGCCTGTGTGCTGTGGCCTGAGCTCCC	1357
2350	ATGGGCCAGTGAGGCCTGGGGCCTCTGTTCTGCTGTGGCCTGAGCTCCC	2399
1358	CAGAGTCCTGAGGAGGAGCGCCAGTTGCCCCTCGCTCACAGACCACACAC	1407
2400	CAGAGTCCTGAGGAGGAGCGCCAGTTGCCCCTCGCTCACAGACCACACAC	2449
1408	CCAGCCCTCCTGGG.CCAACCCAGAGGG.CCTTCAGACCCCAGCTGTGTG	1455
2450	CCAGCCCTCCTGGGTCCAGCCCAGAGGGCCCCTTCAGACCCCAGCTGTCTG	2499
1456	CGCGTCTGACTCTTGTGGCCTCAGCAGGACAGGCCCCGGGCACTGCCTCA	1505
2500	CGCGTCTGACTCTTGTGGCCTCAGCAGGACAGGCCCCGGGCACTGCCTTC	2549
1506	CAGCCAAGGCTGGACTGGGTTGGCTGCAGTGTGTTTAGTGGATACCA	1555
2550	AAGCCAAGGCTGGACTGGGTTGGCTGCAGTGTGTTTAGTGGATACCA	2599
1556	CATCGGAAGTGATTTCTAAATTGGATTTGAATTCGGCTCCTGTTTTCTA	1605
2600	CATCGGAAGTGATTTCTAAAATTCCAATTTCTAAAAAAAA	

Percent Similarity: 53.479 Percent Identity: 53.479

1 CCCCCTTCTACAGGAAACCCGGAGTGGACTGGAACGGTGCAGGGGGAGAA 50

Figure 15A

1	AAAGCTCGGGCTCCACCGGGGACGACCGCTCCTAGAAACTGAGTGGT	47
51	CTCGCCCTCCATCGGGCGCCTCCTTCATACCGGCCCTTCCCCTCGGCT	100
48	ATCCCCGGGCCTGCAGG. AATTCCAACCTGCCTGAAGGGACCCTGCCCT	96
101	TTGCCTGGACAGCTCCTGCCTCAGGCAGCGCCACCTGTGTCGCCCAGCGC	150
97	GGAACTGACAGTGCAAGCTCGGCGTCCTGCCCATCTGGGAAGAAGGCT	144
151	CGCTCCACCAGCAGGCCTGAGCCCCTTCTGCTGCCAGACACCCCCTGC	200
145	GGTTTCTCCCATCAACGAAGCCCTCCCAGGACCTTCCTGCAAGCCCTCGT	194
201	TGCCCACTACTCCTGCTGCTCGGGTTCTGAGGCACAGCTTGTCACACCGA	250
195	CCCACACGCAGCTCTGCCGTCCCTTGGTGTCCCTCCCGGCCTCAGGT	241
251	GGCGGATTCTCTTTCTCTTTCTCTTTCTGGCCCA.CAGCCGCAGC	299
242	CCTCCATGCTGGGTACCTCTGGGCACCTCGTTTGGCTGAGCCAGGGGTTC	291
300	AATGCCGCTGAGTTCCTCTGCTGGAGTTCATCCTGCTAGCTGGGTTCCCG	349
292	AGCCTGGCAGGGCGCCCTGGCAGCAGTCCTTGGCCTGTGGATGCTGTCCT	341
350	AGCTGCCGGTCTGAGCCTGAGTCATGGAGCCTCCTGGAGACTGGGGGCCT	399
342	GGCCTGTGGATGTGTCCCGGCCTCCACGTACCCCCTCTCAGCCC	386
400	CCTCCCTGGAGATCCACCCCCAGAACCGACGTCTTGAGGCTGGTGCTGTA	449
387	CTCCTCTTGGACTCCAGCCATGGGCCTGCGCGGGGAGCCGGAACTGCTCCA	436
450	TCTCACCTTCCTGGGAGCCCCCTGCTACGCCCCAGCTCTGCCG.TCCTGC	498
437	GGACAGAGAACGCCGTGTGTGGGCTGCAGCCCAGGCCACTTCTGCATCGTC	486
499	AAGGAGGACGAGTACCCAGTGGGCTCCGAGTGCTGCCCCAAGTGCAGTCC	548
487	CAGGACGGGGACCACTGCGCCGCGTGCCGCGCTTACGCCACCTCCAGCCC	536
549	AGGTTATCGTGTGAAGGAGGCCTGCGGGGAGCTGACGGGCACAGTGTGTG	598
537	GGGCCAGAGGGTGCAGAAGGGAGGCACCCTGTGTC	586
599	AACCCTGCCCTCCAGGCACCTACATTGCCCACCTCAATGGCCTAAGCAAG	648
587	AGAACTGCCCCGGGGACCTTCTCTCCCAATGGGACCCTGGAGGAATG	634
649	TGTCTGCAGTGCCAAATGTGTGACCCAGATATTGGTTCCCCCTGTGACCT	698
635	TCAGCACCAGACCAAGTAAGTGAACCCGGGGGGGGCCAGCTCTGTGCCCT	684
699	CAGGGGAAGAGGTCACCTGAGGCAGAC	748
685	GGGGAGGGGCTCCACGTTGCTTCCCTGGGAGATGACCGTCTTCTCCAGC	734

749 AGAAACGGAACCAGACCCAGAGGTGGCCTTTGCACTGAGCG 793
735 AGAAAGGTTGAAGGTCCCACCCTGAGCGGCACCCTGGTCACATGCCTGCG 784
794 CAGAGCCTGTCCATGCGGCCAACGGCTCTGTCCCCTTGGAGCCTCATGCC 843
785 TCCAGGAGAGCTGCAGGGTGAAGCCTGTGTGCCCCAGATAACCCCTTCCA 834
844 AGGCTCAGCATGCCAGTGCTCCCTGCGGCCAGGCAGGACTGCACCTGCG 893
835 TGGGCCCAGACAAAGCCTCATCAGATCTGAGCTTCCTGGAGGCTCAGGAT 884
894 GGACAGGCTGACGCCACACCTGGGGGCCAGGCCTGAGCCTACAGGGAGG 943
885 GGGCCTTCCCAGAAGCAGGCCCAGAGGGGAGGCTGCCTCCAGATCCCCTGT 934
944 CACAGGCAGGTGGGCTAGCCATGAACAGAAGAGGAAGCTGGAGTGCTTT 993
935 CCCCTGGGGCTGTGGGTGTCCCTGAATGTCAGGGCCATGGGAGGGCCCCT 984
994 GGGGGTTCATGCATGTAGGCTGGGATTTGGGGCTCACACCTCAACCTGCA 1043
985 GGGCTTCAGGGGTTGGGGAAAGTGAACACTCTGCTCTTTGTCCACCTTCG 1034
1044 TGCCCAGTTCCATGCCCCTCTCTCTGTGAAAGCACCTGTCTACTTGGG 1093
1035 GGAGGACAACCTTCAAATGCTGACCCTGGGCCCCTAACTGA 1075
1094 CTGAGGATGTGGGGGCACAGGTGGCAGGTGAGGCTGCCCTCAGGAGGGGC 1143
1076 CCTGAGACTTCAGAGCTTCTTGGGAGGAGCTGGGGTCCCCCAGCGGAGCC 1125
1144 CCAGGCCCAGCTTGTACCCCACCTCCACCAGTACCTGAAGAAGTGGGGCT 1193
1126 TGGGATGGAGCAGGGATGGCTGCCCCAGGGAGGGGGGGGGTGG 1167
1194 CTCACCCTACCTGCCTCTGCCATTGGAATGGCCTGGTTTGCACAGATGGG 1243
1168 GGCCTTCCATCCTGCTCTGCCCTCGTCCTCTGGCCCCAGCTCAGTCC 1217
1244 AAACCCGTTTGAGGGGTGGGTGTCTGGGTGGGCACGTGGGGCGAGGACCT 1293
1218 TGTCCATCTCCAGCTCTAACCATTTGTGGCCCGACACTGGCTCTCCCTCT 1267
1294 GCCTGAGGGACCCTGCCCTGGAACTGACAGTGCAAGCTCGGCGTCCTGCC 1343
1268 ACCTTCTGTCTGTCTGACACTGGTCTCCGTGCTCTGGGGTCTCTGCA 1317
1344 CATCTGGGCAGAAGGCTGGTTTCTCCCATCAACGAAGCCCTCCCAGGACC 1393
1318 CTGATGGCTGCCTCCCGCTTCTCTCCCCTCTCCCGTCCTGTCTC 1367
1394 TTCCTGCAAGCCCTCGTCCCACACGCAGCTCTGCCGTCCCTTGGTGTCCC 1443
1368 CTGTGGCCAGTCTCTCTTGTTTCTCTCTCCTCCTTCCTTC
1444 TCCCGGCCTCAGGTCCTCCATGCTGGGTACCTCTGGGCACCTCGTT 1489

1418	TCCCCATAGCCGAGCTTGGAAAAGTCAGACAGACCTCTGAGGTCTCATC	2 :	146
	TGGCTGAGCCAGGGGTTCAGCCTGGCAGGGCGCCCTGGCAGCAGTCCTTC		
1468	TGGAGCTGCCACCAGCCCAGCCTCCCTGGGACCTGTCTTCACTGCCTGGC	! 3 1	\51°
1540	GCCTGTGGATGCTGTCCTGGCCTGTG.GATGGTGTCCCGCCCTCCACGTA	A 1	.588
1518	GCCCTGGGAGCCAGGGAGGCTCCCTGAGGCTGAGTGAACACTGGGCGCTC	3 1	.567
1589 1568	CCCCTCTCACCCCTCCTCTTGGACTCCAGCCATGGGCCTGCGCGCGAGC	1	.638 - .603
1639	CGGAACTGCTCCAGGACAGAGACGCCGTGTGTGGCTGCAGCCCAGGCCA	. 1	6.88
	CTTCTGCATCGTCCAGGACGGGGACCACTGCGCCGCGTGCCGCGCTTACG		
	CCACCTCCAGCCCGGGCCAGAGGGTGCAGAGGGAGGCACCGAGAGTCAC		
1789	GACACCCTGTGTCAGAACTGCCCCCCGGGGACCTTCTCTCCCAATGG	18	335
1754	GTAGTCAAGGTGATCGTCTCCGTCCAGGTATTGATCCTCCTCCCCCTCTC	18	303
1836	GACCCTGGAGGAATGTCAGCACCAGACCAATTGGCCTAATCATATGTGTG	18	885
1804	CCTCCCCCTCCACCTTCCCACCTCCCCTCTCCCGCTGGGGCTGTTT	18	353
			32
	TCTGGTGTACATGGTGGGGGCTCCCAGTTCTCTGAGGGTCCTGAGTCTTT		
1904	CATGTCCCCAGCCGTCACCTCTTGGAGCTCTGTCACCCCAAGCCTGGGAG	19	82
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	GTGGCCCCAGAGCTTTTCCAGGATCCGCGGCTCCTCCCAGGGCAGCCACT		
	A THE STATE OF THE CONSTRUCTION OF THE STATE		
998	GCAGGCTGGGGCAGGTGTATGTAGTCAAGGTGATCGTCTCCGTCCAGCGG	20	82
2083	TAAAAGACACCACGAGAAAAAGAGAGAAGAGAGAGAGAGA	20	34
	TAAAAGACAGGAGGCAGAAGGTGAGGCCACAGTCATTGA.GCCCTGCAGG 		
132	CCCCTCCGGACGTCACCACGCTCGCCCCTCGACCACACAAMA CCCTTCA		
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	AC.GGGGAGGAGCCCAAACCACTGACCCACAGACTCTGCACCCCGACGCC	
	ACGGGGAGGAGCCCAAACCACTGACCCACAGACTCTGCACCCCGACGCC	
2231	AGAGATACCTGGAGAGACGGCTGCTGATAGAGGCTGTCCACCTGGCGAAA	2280
2185	AGAGATACCTGGAGCGACGGCTGCTGAAAGAGGCTGTCCACCTGGCGAAA	2234
2281	CCACCGGAGCCCGGAGGCTTGGGGGCTCCGCCCTGGGCTGGTTTCCGTCT	2330
2235	CCACCGGAGCCCGGAGGTTTGGGGGGCTCCGCCCTGGGCTGGTTTCCGTCT	2284
2331	CCTCCAGTGGAGGGAGGTGGTGCCCCTGCTGGTGGTAGAGCTGGGGAC	2380
2285	CCTCCAGTGGAGGAGAGGTGGGGCCCCTGCTGG.GGTAGAGCTGGGGAC	2333
2381	GCCACGTGCCATTCCCATGGTTCAGTGAGGGGCTGGTGGCCTCTGTTCTG	2430
2334	GCCACGTGCCATTCCCATGGGCCAGTGAGGGCCTGG.GGCCTCTGTTCTG	2382
2431	CTGTGGCCTGAGCTCCCCAGAGTCCTGAGGAGGAGCCCCAGTTGCCCCTC	2480
2383	CTGTGGCCTGAGCTCCCCAGAGTCCTGAGGAGGAGCGCCAGTTGCCCCTC	2432
2481	GCTCACAGACCACACCCAGCCCTCCTGGG.CCAACCCAGAGGCCCCTT	2529
2433	GCTCACAGACCACACCCAGCCCTCCTGGGTCCAGCCCAGAGGGCCCTT	2482
2530	CAGACCCCAGCTGTCTGCGCGTCTGACTCTTGTGGCCTCAGCAGGACAGG	2579
2483	CAGACCCCAGCTGTCTGCGCGTCTGACTCTTGTGGCCTCAGCAGGACAGG	2532
2580	CCCCGGGCACTGCCTCACAGCCAAGGCTGGAATGGGTTGGCTGCAGTGTG	2629
2533	CCCCGGGCACTGCCTTCAAGCCAAGGCTGGACTGGGTTGGCTGCAGTGTG	2582
2630	GTGTTTAGTGGATACCACATCGGAAGTGATTTTCTAAAAATTGGATTTGA	2679
2583		2624
	ATTCGGAAAAAA 2692	
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C POGKYIHPONSI	RLREYYDQTAQM	REKQYLINSQ		KEDEYPVGSE		esgsftasenhlrh	EDSTYTQLWNWVPE	GESEFLDTWNRETH	PENSFSSAGGQRT	PPGTY TAHLNGLSK		RICHONSENDEO	Y C ALSKQEG	TSEP C	T C LGAG	S C IVQDGDH	. !	HAGFFLRENE	APGTFSNTTSSTDI	PVGFFSNVSSAFEK	F-GTFNKQKAGI	PPGTFSPNGILEE
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Figure 16